

## A B S T R A C T

The invention relates to a method of correcting frequency errors for use in CDMA mobile radio terminals which is adaptive, depending on the value of the frequency error. Thus the invention provides three different frequency error correction processing modes: a processing mode with no correction, an open-loop processing mode for coarse correction, and finally a closed-loop processing mode for very accurate correction. Said frequency error processing modes are selected by a central control unit as a function both of the value of the frequency error and of a quality factor determined by a quality control unit of a channel coefficient filter.

$\frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ 0 \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 0 \\ 1 \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ 1 \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ -1 \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ j \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ -j \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ 0 \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 0 \\ 1 \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ 1 \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ -1 \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ j \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ -j \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ 0 \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 0 \\ 1 \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ 1 \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ -1 \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ j \end{pmatrix}$   
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ -j \end{pmatrix}$